

Microsoft

Exam Questions AZ-203

Developing Solutions for Microsoft Azure



NEW QUESTION 1

Create a DataContainer that contains the documents which must be added.

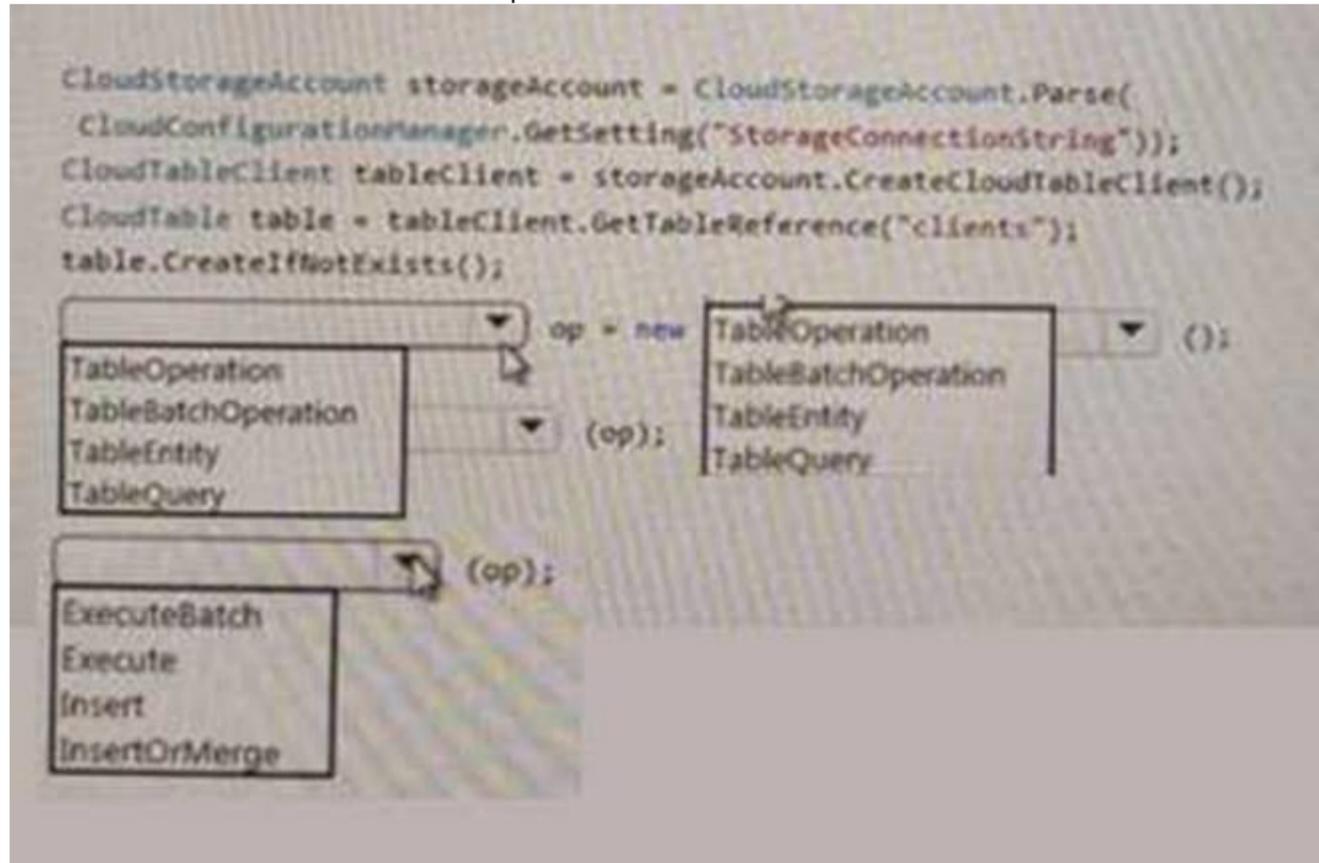
- A. Mastered
- B. Not Mastered

Answer: A

NEW QUESTION 2

HOTSPOT

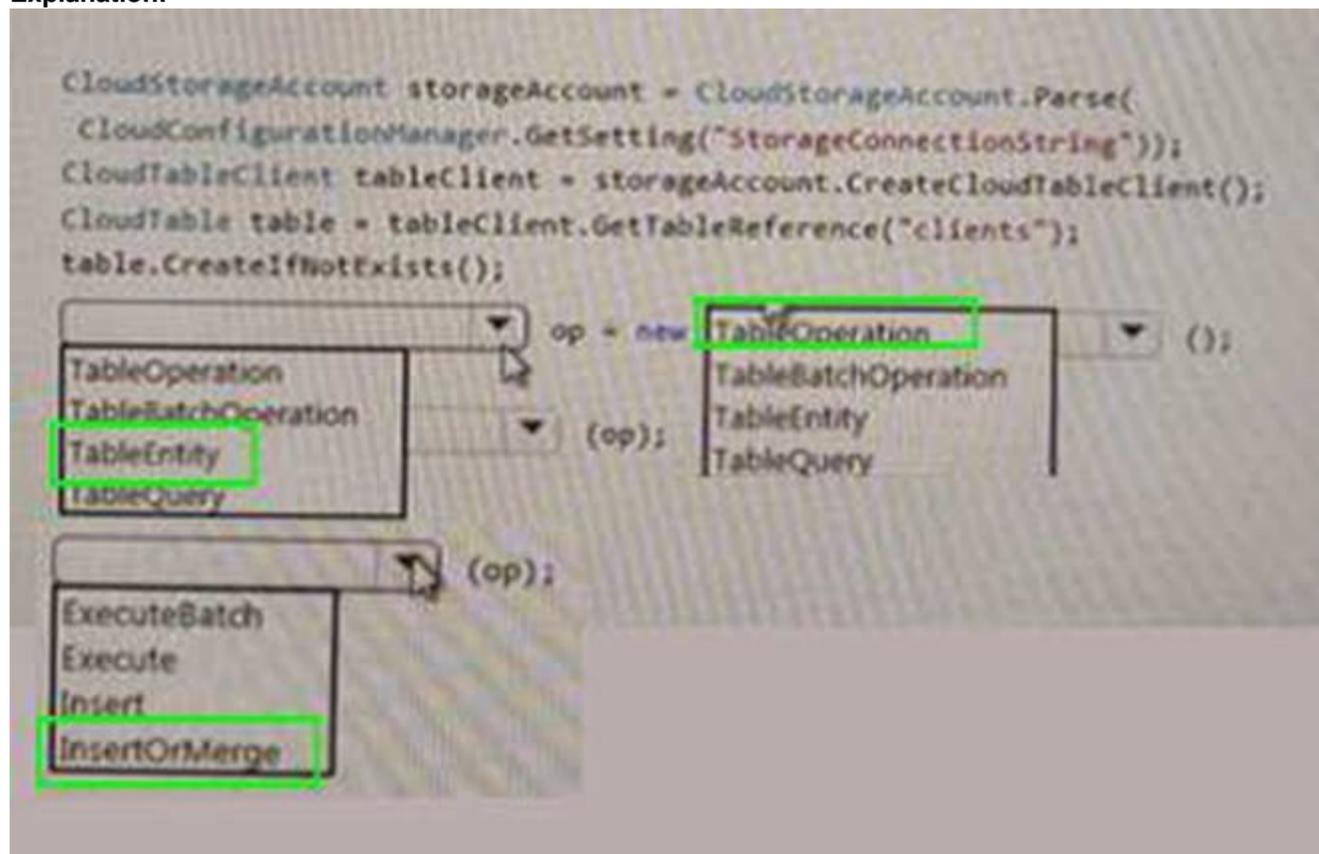
You are developing a data storage solution for a social networking app. The solution requires a mobile app that stores user information using Azure Table Storage. You need to develop code that can insert multiple sets of user information. How should you complete the code? To answer, select the appropriate options in the answer area. **NOTE:** Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 3

DRAG DROP

You are developing an ASP.NET Core Web API web service that uses Azure Application Insights to monitor performance and trace events. You need to enable logging and ensure that log messages can be correlated to events tracked by Application Insights. How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. **NOTE:** Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 4

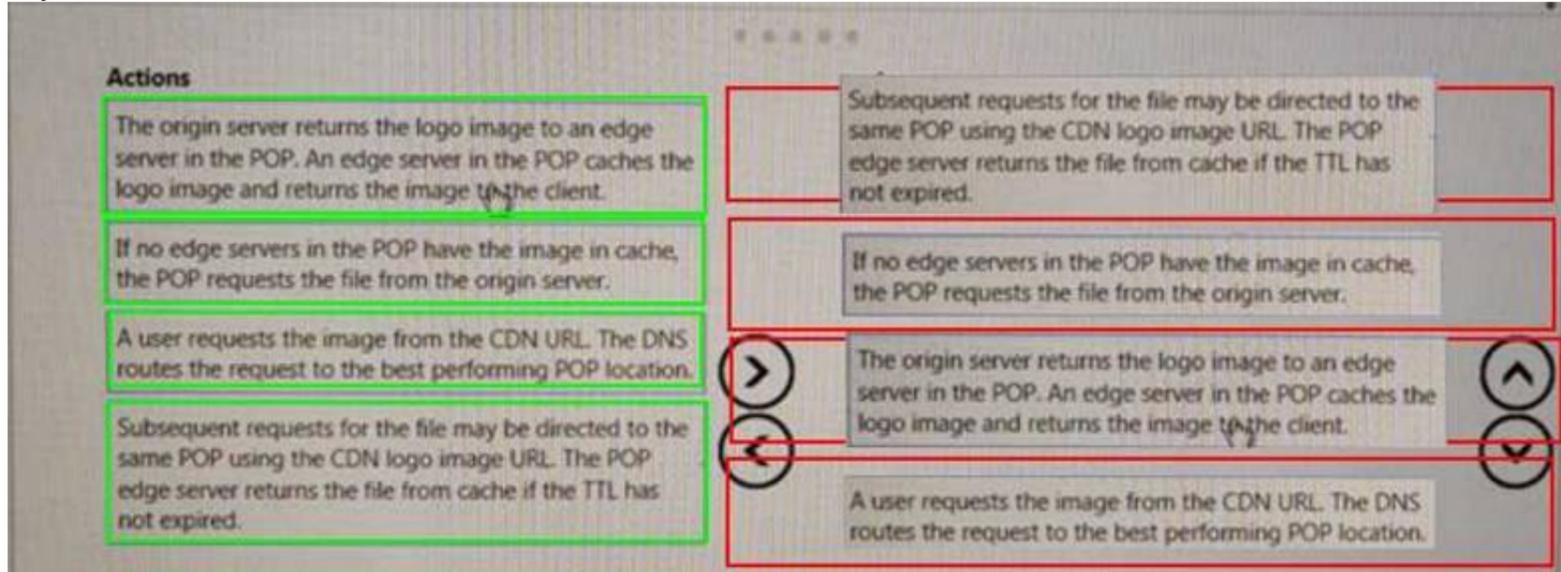
DRAG DROP

Your company has several websites that use a company logo image. You use Azure Content Delivery Network (CDN) to store the static image. You need to determine the correct process of how the CDN and the Point of Presence (POP) server will distribute the image and list the items in the correct order. In which order do the actions occur? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 5

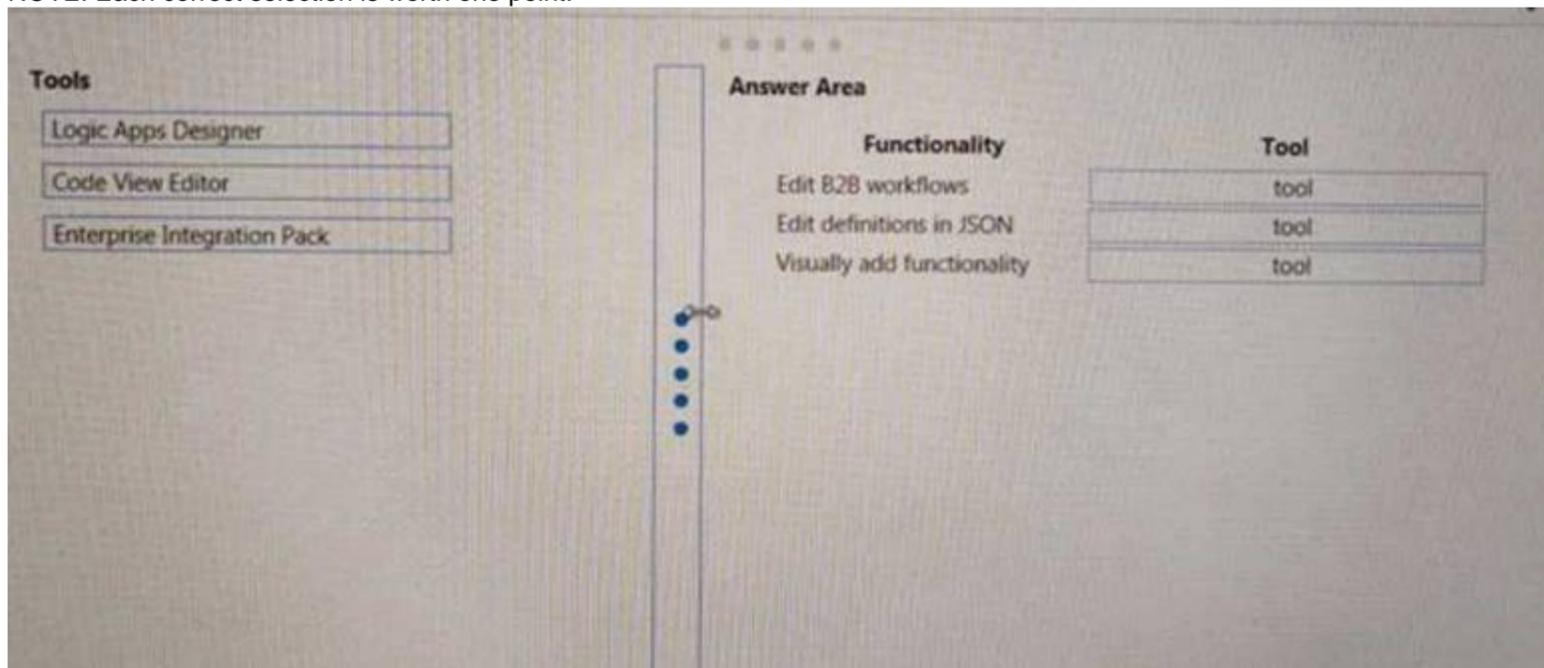
DRAG DROP

You manage several existing Logic Apps.

You need to change definitions, add new logic and optimize these apps on a regular basis.

What should you use? To answer, drag the appropriate tools to the coned functionalities. Each tool may be used once, more than once, or not at all- You may need to drag the split bar between panes or scroll to view content.

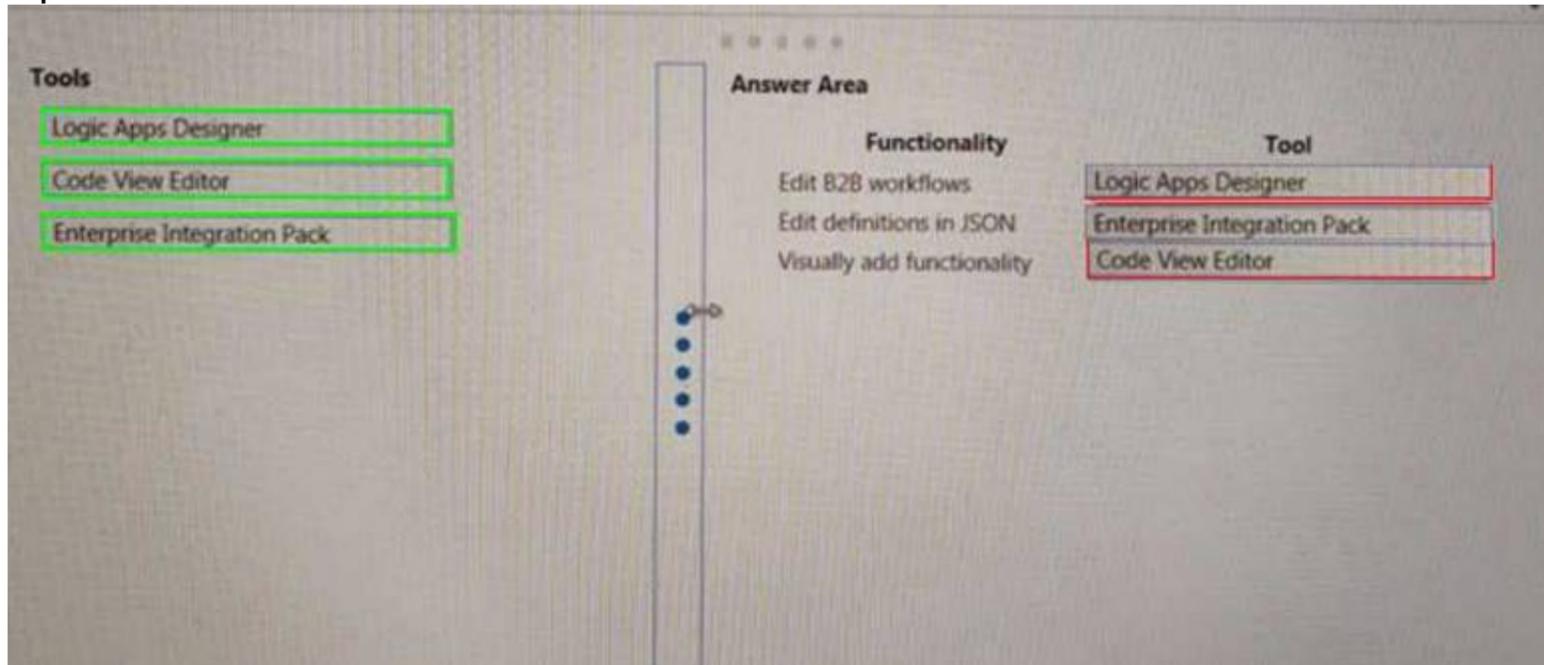
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 6

You develop a gateway solution for a public facing news API. The news API back end is implemented as a RESTful service and uses an OpenAPI specification.

You need to ensure that you can access the news API by using an Azure API Management service instance. Which Azure PowerShell command should you run?

A)

```
Import-AzureRmApiManagementApi -Context $ApiMgmtContext -SpecificationFormat "Swagger" -SpecificationPath $SwaggerPath -Path $Path
```

B)

```
New-AzureRmApiManagementBackend -Context $ApiMgmtContext -Url $Url -Protocol http
```

C)

```
New-AzureRmApiManagement -ResourceGroupName $ResourceGroup -Name $Name -Location $Location -Organization $Org -AdminEmail $AdminEmail
```

D)

```
New-AzureRmApiManagementBackendProxy -Url $ApiUrl
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

NEW QUESTION 7

You provide an Azure API Management managed web service to clients. The back end web service implements HTTP Strict Transport Security (HSTS). Every request to the backend service must include a valid HTTP authorization header. You need to configure the Azure API Management instance with an authentication policy. Which two policies can you use? Each correct answer presents a complete solution NOTE: Each correct selection is worth one point.

- A. Certificate Authentication
- B. Basic Authentication
- C. OAuth Client Credential Grant
- D. Digest Authentication

Answer: AC

NEW QUESTION 8

You are developing a project management service by using ASP.NET. The service hosts conversations, files, to-do lists, and a calendar that users can interact with at any time. The application uses Azure Search for allowing users to search for keywords in the project data. You need to implement code that creates the object which is used to create indexes in the Azure Search service. Which two objects should you use? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. SearchService
- B. SearchIndexClient
- C. SearchServiceClient
- D. SearchCredentials

Answer: CD

NEW QUESTION 9

HOTSPOT

You are creating a CU script that creates an Azure web app and related services in Azure App Service. The web app uses the following variables:

Variable name	Value
\$gitrepo	https://github.com/Contos/webapp
\$webappname	Webapp1103

You need to automatically deploy code from GitHub to the newly created web app. How should you complete the script? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 10

DRAG DROP

You are developing a .NET Core model-view controller (MVC) application hosted on Azure for a health care system that allows providers access to their information.

You develop the following code:

```
services.AddAuthorization (options =>
{
    options.AddPolicy("ProviderPartner", policy =>
    {
        .policy.AddAuthenticationSchemes("Cookie, Bearer");
        policy.RequireAuthenticatedUser();
        policy.RequireRole("ProviderAdmin", "SysAdmin");
        policy.RequireClaim("editor", "partner");
    });
})
```

You define a role named SysAdmin.

You need to ensure that the application meets the following authorization requirements:

?Allow the ProviderAdmin and SysAdmin roles access to the Partner controller regardless of whether the user holds an editor claim of partner.

?Limit access to the Manage action of the controller to users with an editor claim of partner who are also members of the SysAdmin role.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Code Segments

```
[Authorize (Policy = "ProviderEditor")]
[Authorize (Role = "SysAdmin")]

[Authorize (Role = "ProviderAdmin")]
[Authorize (Role = "SysAdmin")]

[Authorize (Role = "SysAdmin", "ProviderAdmin")]

[Authorize (Policy = "ProviderEditor", Role = "SysAdmin")]
```

Answer Area

```
public class PartnerController : Controller
{
    ...
}

public ActionResult Manage ()
{
    ...
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1:
 Allow the ProviderAdmin and SysAdmin roles access to the Partner controller regardless of whether the user holds an editor claim of partner.
 Box 2:
 Limit access to the Manage action of the controller to users with an editor claim of partner who are also members of the SysAdmin role.

NEW QUESTION 10

HOTSPOT

You develop a news and blog content delivery app for Windows devices.
 A notification must arrive on a user's device when there is a new article available for them to view.
 You need to implement push notifications.
 How should you complete the code segment? To answer, select the appropriate options in the answer area.
 NOTE: Each correct selection is worth one point.

```
string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";
NotificationHubClient hub =
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation

(notificationHubConnection, notificationHubName);
string windowsToastPayload =
@"<toast><visual><binding template=""ToastText01""><text id=""1""> +
@"New item to view" + @"</text></binding></visual></toast>";
try
{
var result =
await hub. (windowsToastPayload);
...
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

string notificationHubName = "contoso_hub";
string notificationHubConnection = "connection_string";
NotificationHubClient hub =
    NotificationHubClientSettings
    NotificationHubJob
    NotificationDetails

NotificationHubClient
NotificationHubClientSettings
NotificationHubJob
NotificationDetails

GetInstallation
CreateClientFromConnectionString
CreateOrUpdateInstallation
PatchInstallation

(notificationHubConnection, notificationHubName);
string windowsToastPayload =
    @"<toast><visual><binding template=""ToastText01""><text id=""1""> +
    @"New item to view" + @"</text></binding></visual></toast>";
try
{
var result =
    await hub. (windowsToastPayload);
    ...
    SubmitNotificationHubJobAsync
    ScheduleNotificationAsync
}

```

NEW QUESTION 15

HOTSPOT

A company develops a series of mobile games. All games use a single leaderboard service. You have the following requirements:

- Code should be scalable and allow for growth.
- Each record must consist of a playerId, gameId, score, and time played.
- When users reach a new high score, the system will save the new score using the SaveScore function below.
- Each game is assigned an Id based on the series title.

You have the following code. (Line numbers are included for reference only.)

```

01 public void SaveScore(string gameId, string playerId, int score, long timePlayed)
02 {
03     CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);
04     CloudTableClient tableClient = storageAccount.CreateCloudTableClient();
05     CloudTable table = tableClient.GetTableReference("scoreTable");
06     table.CreateIfNotExists();
09     table.Execute(insertOperation);
10 }
11 public class PlayerScore : TableEntity
12 {
13     public PlayerScore(string gameId, string playerId, int score, long timePlayed)
14     {
15         this.PartitionKey = gameId;
16         this.RowKey = playerId;
17         Score = score;
18         TimePlayed = timePlayed;
19     }
20     public int Score { get; set; }
21     public long TimePlayed { get; set; }
22 }

```

You store customer information in an Azure Cosmos database. The following data already exists in the database:

PartitionKey	RowKey	Email
Harp	Walter	wharp@contoso.com
Smith	Steve	ssmith@contoso.com
Smith	Jeff	jsmith@contoso.com

```

01 CloudTableClient tableClient = account.CreateCloudTableClient();
02 CloudTable table = tableClient.GetTableReference("people");
03 TableQuery<CustomerEntity> query = new TableQuery<CustomerEntity>()
04     .Where(TableQuery.CombineFilters(
05         TableQuery.GenerateFilterCondition(PartitionKey, QueryComparisons.Equal, "Smith"),
06         TableOperators.And, TableQuery.GenerateFilterCondition(Email, QueryComparisons.Equal, "ssmith@contoso.com")
07     ));
08 await table.ExecuteQuerySegmentedAsync<CustomerEntity>(query, null);

```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point

Answer Area



	Yes	No
The code will work with Cosmos DB.	<input type="radio"/>	<input type="radio"/>
The save score function will update and replace a record if one already exists with the same playerId and gameId.	<input type="radio"/>	<input type="radio"/>
The data for the game will be automatically partitioned.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area



	Yes	No
The code will work with Cosmos DB.	<input type="radio"/>	<input checked="" type="radio"/>
The save score function will update and replace a record if one already exists with the same playerId and gameId.	<input checked="" type="radio"/>	<input type="radio"/>
The data for the game will be automatically partitioned.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 20

DRAG DROP

You develop software solutions for a mobile delivery service. You are developing a mobile app that users can use to order from a restaurant in their area. The app uses the following workflow:

1. A driver selects the restaurants for which they will deliver orders.
2. Orders are sent to all available drivers in an area.
3. Only orders for the selected restaurants will appear for the driver.
4. The first driver to accept an order removes it from the list of available orders. You need to implement an Azure Service Bus solution.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Create a Service Bus topic for each restaurant for which a driver can receive messages.
- Create a single Service Bus topic.
- Create a single Service Bus subscription.
- Create a single Service Bus Namespace.
- Create a Service Bus Namespace for each restaurant for which a driver can receive messages.
- Create a Service Bus subscription for each restaurant for which a driver can receive orders.



Answer area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions	Answer area
Create a Service Bus topic for each restaurant for which a driver can receive messages.	Create a single Service Bus topic.
Create a single Service Bus topic.	
Create a single Service Bus subscription.	
Create a single Service Bus Namespace.	Create a Service Bus Namespace for each restaurant for which a driver can receive messages.
Create a Service Bus Namespace for each restaurant for which a driver can receive messages.	
Create a Service Bus subscription for each restaurant for which a driver can receive orders.	Create a Service Bus topic for each restaurant for which a driver can receive messages.

NEW QUESTION 25

DRAG DROP

You have an application that provides weather forecasting data to external partners. You use Azure API Management to publish APIs. You must change the behavior of the API to meet the following requirements:

- Support alternative input parameters.
- Remove formatting text from responses.
- Provide additional context to back-end services.

Which types of policies should you implement? To answer, drag the policy types to the correct scenarios. Each policy type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content NOTE: Each correct selection is worth one point.

Policy types	Requirement	Policy type
Inbound	Rewrite the request URL to match to the format expected by the web service.	policy type
Outbound	Remove formatting text from responses.	policy type
Backend	Forward the user ID that is associated with the subscription key for the original request to the back-end service.	policy type

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Policy types	Requirement	Policy type
Inbound	Rewrite the request URL to match to the format expected by the web service.	Inbound
Outbound	Remove formatting text from responses.	Backend
Backend	Forward the user ID that is associated with the subscription key for the original request to the back-end service.	Outbound

NEW QUESTION 26

You develop a website. You plan to host the website in Azure. You expect the website to experience high traffic volumes after it is published. You must ensure that the website remains available and responsive while minimizing cost. You need to deploy the website. What should you do?

- A. Deploy the website to an App Service that uses the Shared service tie
- B. Configure the App Service plan to automatically scale when the CPU load is high.
- C. Deploy the website to a virtual machin
- D. Configure the virtual machine to automatically scale when the CPU load is high.
- E. Deploy the website to an App Service that uses the Standard service tie
- F. Configure the App Service plan to automatically scale when the CPU load is high.
- G. Deploy the website to a virtual machin
- H. Configure a Scale Set to increase the virtual machine instance count when the CPU load

Answer: C

NEW QUESTION 29

You are writing code to create and run an Azure Batch job. You have created a pool of compute nodes. You need to choose the right class and its method to submit a batch job to the Batch service.

Which method should you use?

- A. JobOperations.CreateJobO
- B. CloudJob.Enable(IEnumerable<BatchClientBehavior>)
- C. CloudJob.CommitAsync(IEnumerable<BatchClientBehavior>, CancellationToken)
- D. JobOperations.EnableJob(String, IEnumerable<BatchClientBehavior>)
- E. JobOperations.EnableJobAsync(Strin
- F. IEnumerable<BatchClientBehavior>. CancellationToken)

Answer: D

NEW QUESTION 34

HOTSPOT

Your company is migrating applications to Azure. The IT department must allow internal developers to communicate with Microsoft support.

The service agents of the IT department must only have view resources and create support ticket permissions to all subscriptions. A new custom role must be created by reusing a default role definition and changing the permissions.

You need to create the custom role.

To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Item	Value
Powershell command	<pre>Get-AzureRmRoleDefinition -Name "Reader" ConvertTo-Json Out-File C:\SupportRole.json Get-AzureRmRoleDefinition -Name "Operator" ConvertTo-Json Out-File C:\SupportRole.json Set-AzureRmRoleDefinition -Name "Reader" Input-File C:\SupportRole.json Set-AzureRmRoleDefinition Input-File C:\SupportRole.json</pre>
Actions section	<pre>"/read","Microsoft.Support/" "/read" "/read","Microsoft.Support/"</pre>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Item	Value
Powershell command	<pre>Get-AzureRmRoleDefinition -Name "Reader" ConvertTo-Json Out-File C:\SupportRole.json Get-AzureRmRoleDefinition -Name "Operator" ConvertTo-Json Out-File C:\SupportRole.json Set-AzureRmRoleDefinition -Name "Reader" Input-File C:\SupportRole.json Set-AzureRmRoleDefinition Input-File C:\SupportRole.json</pre>
Actions section	<pre>"/read","Microsoft.Support/" "/read" "/read","Microsoft.Support/"</pre>

Case Study: 1

Coho Winery

Overview

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

LabelMaker app

Coho Winery produces, bottles, and distributes a variety of wines globally. You are a developer implementing highly scalable and resilient applications to support online order processing by using Azure solutions.

Coho Winery has a LabelMaker application that prints labels for wine bottles. The application sends data to several printers. The application consists of five modules that run independently on virtual machines (VMs). Coho Winery plans to move the application to Azure and continue to support label creation.

External partners send data to the LabelMaker application to include artwork and text for custom label designs.

Requirements

Data

You identify the following requirements for data management and manipulation:

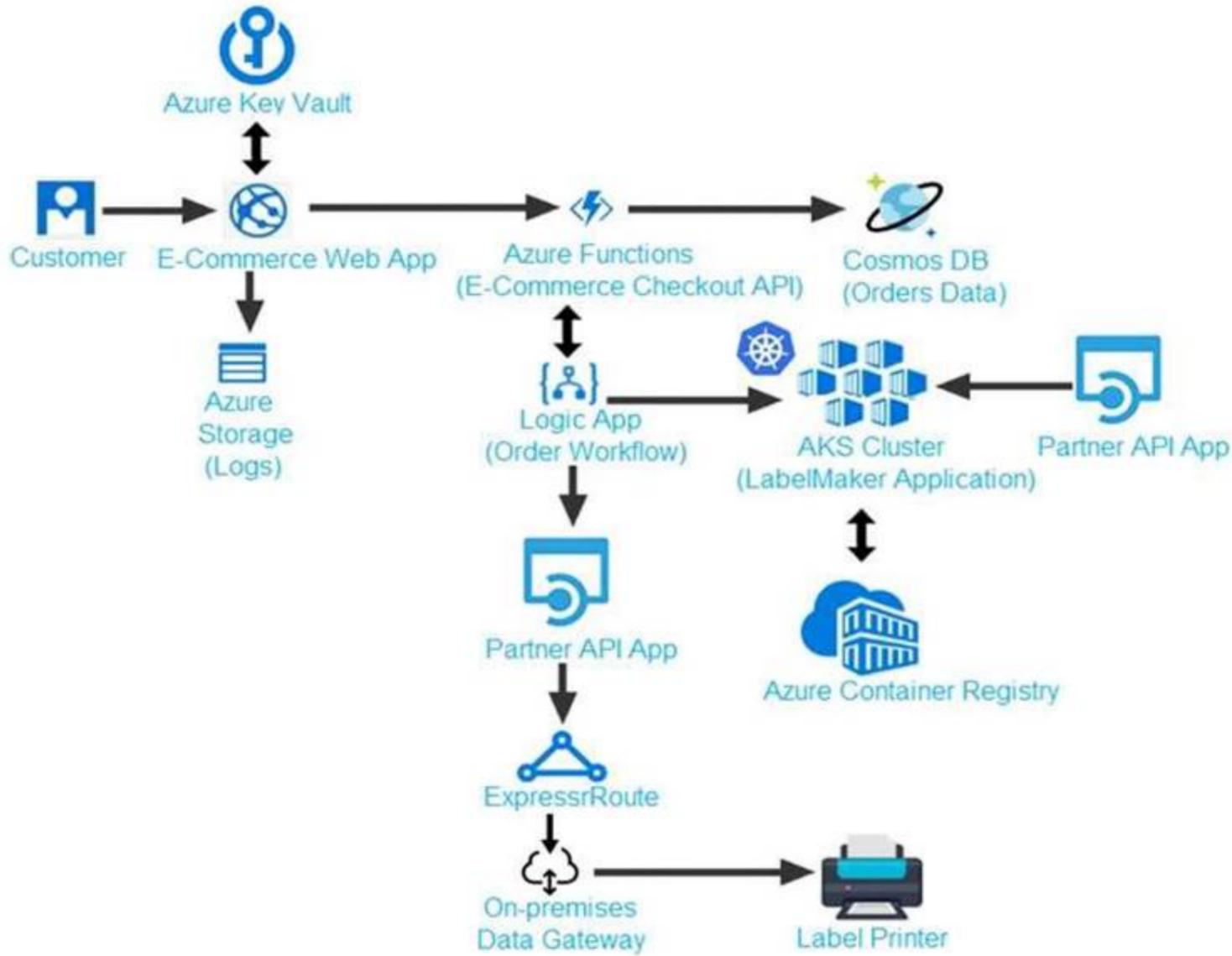
- Order data is stored as nonrelational JSON and must be queried using Structured Query Language (SQL).
- Changes to the Order data must reflect immediately across all partitions. All reads to the Order data must fetch the most recent writes.

Security

You have the following security requirements:

- Users of Coho Winery applications must be able to provide access to documents, resources, and applications to external partners.
- External partners must use their own credentials and authenticate with their organization's identity management solution.
- External partner logins must be audited monthly for application use by a user account administrator to maintain company compliance.

- Storage of e-commerce application settings must be maintained in Azure Key Vault.
 - E-commerce application sign-ins must be secured by using Azure App Service authentication and Azure Active Directory (AAD).
 - Conditional access policies must be applied at the application level to protect company content.
 - The LabelMaker application must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.
- LabelMaker app
 Azure Monitor Container Health must be used to monitor the performance of workloads that are deployed to Kubernetes environments and hosted on Azure Kubernetes Service (AKS).
 You must use Azure Container Registry to publish images that support the AKS deployment.
 Architecture



Issues
 Calls to the Printer API App fall periodically due to printer communication timeouts. Printer communication timeouts occur after 10 seconds. The label printer must only receive up to 5 attempts within one minute
 The order workflow fails to run upon initial deployment to Azure.
 Order.Json
 Relevant portions of the app files are shown below. Line numbers are included for reference only. The JSON file contains a representation of the data for an order that includes a single item.

```
01 {
02  "id" : 1,
03  "customers" : [
04  {
05    "familyName" : "Doe",
06    "givenName" : "John",
07    "customerid" : 5
08  }
09 ],
10  "line_items" : [
11  {
12    "fulfillable_quantity" : 1,
13    "id" : 6,
14    "price" : "199.99",
15    "product_id" : 7513594,
16    "quantity": 1,
17    "requires_shipping" : true,
18    "sku" : "SFC-342-N" ,
19    "title" : "Surface Go",
20    "vendor" : "Microsoft" ,
21    "name" : "Surface Go - 8GB",
22    "taxable" : true,
```

```

23  "tax_lines" : [
24  {
25    "title" : "State Tax",
26    "price" : "3.98",
27    "rate" : 0.06
28  }
29 ],
30  "total_discount" : "5.00"
31  "discount_allocations" : [
32  {
33    "amount" : "5.00",
34    "discount_application_index" : 2
35  }
36  ]
37  }
38 ],
39 "address" : {
40 "state" : "NY",
41 "country" : "Manhattan",
42 "city" : "NY"
43 }
44 }

```

NEW QUESTION 39

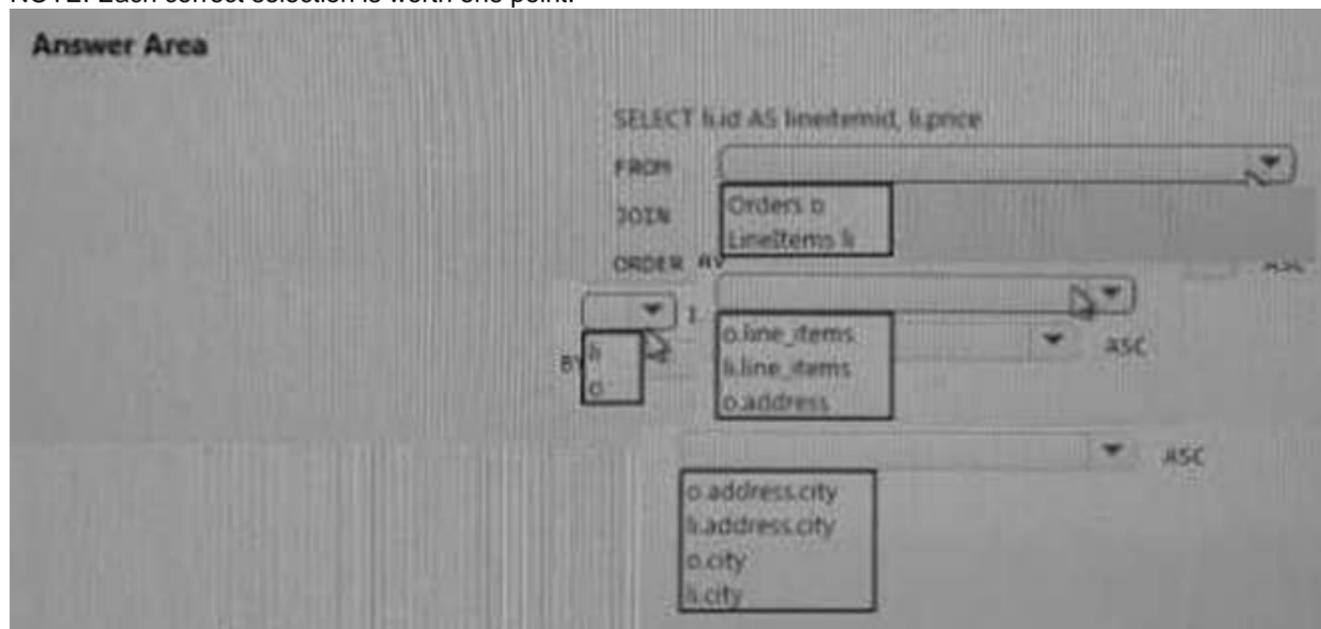
HOTSPOT

You need to retrieve all order line items sorted alphabetically by the city.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



```

SELECT l.id AS lineitemid, l.price
FROM Orders o
JOIN LineItems l
ORDER BY o.address ASC

```

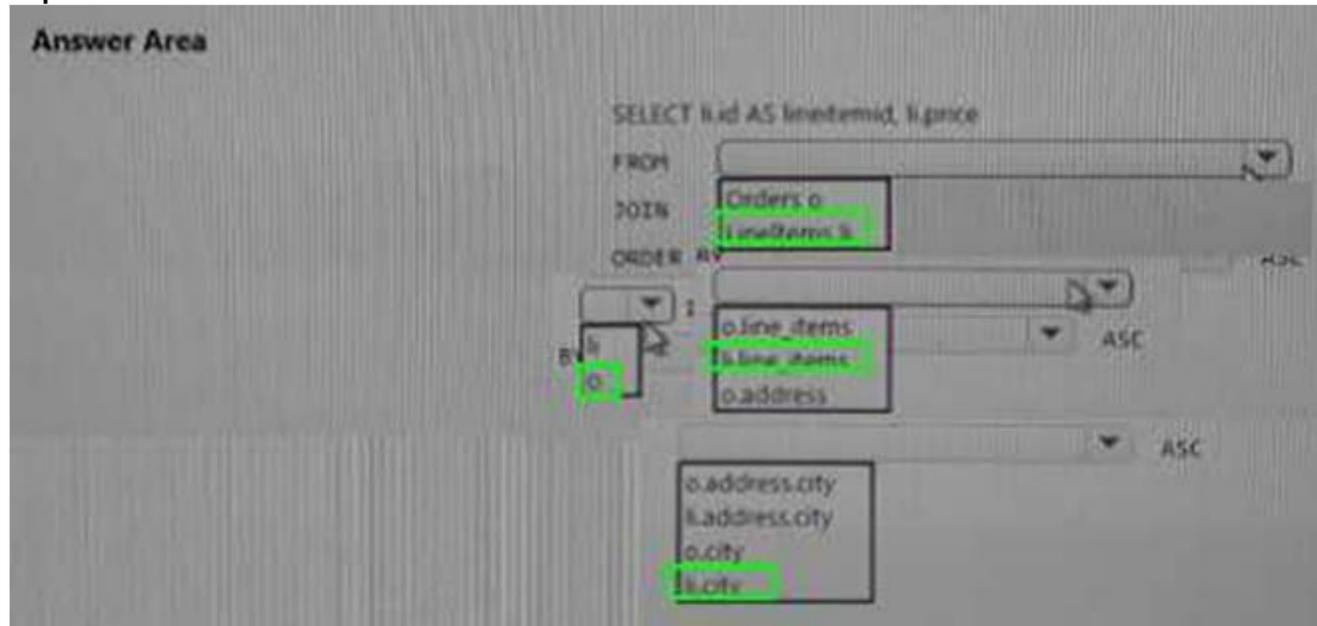
Available columns for ORDER BY:

- o.address.city
- l.address.city
- o.city
- l.city

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 41

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals. You need to meet the LabelMaket application Solution; Create a conditional access policy and assign it to the Azure Kubernetes service cluster. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Scenario: The LabelMaker applications must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

Before an Azure Active Directory account can be used with the AKS cluster, a role binding or cluster role binding needs to be created.

References:

<https://docs.microsoft.com/en-us/azure/aks/aad-integration>

NEW QUESTION 46

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the LabelMaker application security requirement.

Solution: Place the Azure Active Directory account into an Azure AD group. Create a ClusterRoleBinding and assign it to the group.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Scenario: The LabelMaker applications must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

Permissions can be granted within a namespace with a RoleBinding, or cluster-wide with a ClusterRoleBinding.

References:

<https://kubernetes.io/docs/reference/access-authn-authz/rbac/>

NEW QUESTION 49

Note: In this section you will see one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem, and you must determine whether the solution meets the stated goals. More than one solution might solve the problem. It is also possible that none of the solutions solve the problem.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the LabelMaker application security requirement. Solution: Create a RoleBinding and assign it to the Azure AD account. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Scenario: The LabelMaker applications must be secured by using an AAD account that has full access to all namespaces of the Azure Kubernetes Service (AKS) cluster.

Permissions can be granted within a namespace with a RoleBinding, or cluster-wide with a ClusterRoleBinding.

References:

<https://kubernetes.io/docs/reference/access-authn-authz/rbac/>

NEW QUESTION 50

You need to implement the e-commerce checkout API.
 Which three actions should you perform? Each correct answer presents part of the solution.
 NOTE: Each correct selection is worth one point.

- A. In the Azure Function App, enable Manger Service Identity (MSI).
- B. Set the function template's Mode property to Webhook and the Webhook type property to Generic JSON
- C. Set the function template's Mode property to Webhook and the Webhook type property to GitHub.
- D. Create an Azure Function using the HTTP POST function template.
- E. In the Azure Function App, enable Cross-Origin Resource Sharing (CORS) with all origins permitted.
- F. Create an Azure Function using the Generic webhook function template.

Answer: CDF

Explanation:

Case Study: 2
 Litware Inc
 Overview

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

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Overview Background

You are a developer for Litware Inc., a SaaS company that provides a solution for managing employee expenses. The solution consists of an ASP.NET Core Web API project that is deployed as an Azure Web App.

Overall architecture

Employees upload receipts for the system to process. When processing is complete, the employee receives a summary report email that details the processing results. Employees then use a web application to manage their receipts and perform any additional tasks needed for reimbursement

Receipt processing

Employees may upload receipts in two ways:

- Uploading using an Azure Files mounted folder
- Uploading using the web application Data Storage

Receipt and employee information is stored in an Azure SQL database.

Documentation

Employees are provided with a getting started document when they first use the solution. The documentation includes details on supported operating systems for Azure File upload, and instructions on how to configure the mounted folder.

Solution details Users table

Column	Description
UserId	unique identifier for and employee
ExpenseAccount	employees expense account number in the format 1234-123-1234
AllowedAmount	limit of allowed expenses before approval is needed
SupervisorId	unique identifier for employee's supervisor
SecurityPin	value used to validate user identity

Web Application

You enable MSI for the Web App and configure the Web App to use the security principal name,

Processing

Processing is performed by an Azure Function that uses version 2 of the Azure Function runtime. Once processing is completed, results are stored in Azure Blob. Storage and an Azure SQL database. Then, an email summary is sent to the user with a link to the processing report. The link to the report must remain valid if the email is forwarded to another user.

Requirements Receipt processing

Concurrent processing of a receipt must be prevented.

Logging

Azure Application Insights is used for telemetry and logging in both the processor and the web application. The processor also has Trace Writer logging enabled.

Application Insights must always contain all log messages.

Disaster recovery

Regional outage must not impact application availability. All DR operations must not be dependent on application running and must ensure that data in the DR region is up to date.

Security

Users' SecurityPin must be stored in such a way that access to the database does not allow the viewing of SecurityPins. The web application is the only system that should have access to SecurityPins.

All certificates and secrets used to secure data must be stored in Azure Key Vault. You must adhere to the Least Privilege Principal.

All access to Azure Storage and Azure SQL database must use the application's Managed Service Identity (MSI).

Receipt data must always be encrypted at rest. All data must be protected in transit,

User's expense account number must be visible only to logged in users. All other views of the expense account number should include only the last segment, with the remaining parts obscured.

In the case of a security breach, access to all summary reports must be revoked without impacting other parts of the system.

Issues

Upload format issue

Employees occasionally report an issue with uploading a receipt using the web application. They report that when they upload a receipt using the Azure File Share, the receipt does not appear in their profile. When this occurs, they delete the file in the file share and use the web application, which returns a 500 Internal Server error page.

Capacity issue

During busy periods, employees report long delays between the time they upload the receipt and when it appears in the web application.

Log capacity issue

Developers report that the number of log messages in the trace output for the processor is too high, resulting in lost log messages-

Application code Processing.cs

Processing.cs

```

PC01 public static class Processing
PC02 {
PC03     public static class Function
PC04     {
PC05         [FunctionName ("IssueWork")]
PC06         public static async Task Run ([TimerTrigger("0 */5" *****)] TimerInfo timer, ILogger log)
PC07         {
PC08             var container = await GetCloudBlobContainer();
PC09             foreach (var fileItem in await ListFiles())
PC10             {
PC11                 var file = new CloudFile (fileItem.StorageUri.PrimaryUri);
PC12                 var ms = new MemoryStream();
PC13                 await file.DownloadToStreamAsync(ms);
PC14                 var blob = container.GetBlockBlobReference (fileItem.Uri.ToString());
PC15                 await blob.UploadFromStreamAsync(ms);
PC16             }
PC17         }
PC18     }
PC19     private static CloudBlockBlob GetDRBlob (CloudBlockBlob sourceBlob)
PC20     {
PC21         . . .
PC22     }
PC23     private static async Task<CloudBlobContainer> GetCloudBlobContainer()
PC24     {
PC25         var cloudBlobClient = new CloudBlobClient (new Uri(" . . ."), await GetCredentials());
PC26
PC27         await cloudBlobClient.GetRootContainerReference().CreatIfNotExistAsync();
PC28         return cloudBlobClient.GetRootContainerReference();
PC29     }
PC30     private static async Task<StorageCredentials> GetCredentials()
PC31     {
PC32         . . .
PC33     }
PC34     private static async Task<List<IListFileItem>> ListFiles()
PC35     {
PC36         . . .
PC37     }
PC37     private KeyVaultClient _keyVaultClient = new KeyVaultClient(" . . .");
PC38 }
PC39 }

```

Database.cs

```

DB01 public class Database
DB02 {
DB03     private string ConnectionString =
DB04
DB05     public async Task<object> LoadUserDetails(string userId)
DB06     {
DB07
DB08     return await policy.ExecuteAsync (async () =>
DB09     {
DB10         using (var connection = new SqlConnection (ConnectionString))
DB11         {
DB12             await connection.OpenAsync();
DB13             using (var command = new SqlCommand(" ", connection))
DB14             using (var reader = command.ExecuteReader())
DB15             {
DB16                 -
DB17             }
DB18         }
DB19     });
DB20 }
DB21 }

```

ReceiptUploader.cs

```

RU01 public class ReceiptUploader
RU02 {
RU03     public async Task UploadFile(string file, byte[ ] binary)
RU04     {
RU05         var httpClient = new HttpClient();
RU06         var response = await httpClient.PutAsync( "...", new ByteArrayContent(binary));
RU07         while (ShouldRetry (response))
RU08         {
RU09             response = await httpClient.PutAsync ( "...", new ByteArrayContent(binary));
RU10         }
RU11     }
RU12 private bool ShouldRetry(HttpResponseMessage response)
RU13 {
RU14
RU15 }
RU16 }

```

ConfigureSSE.ps1

```

CS01 $storageAccount = Get-AzureRmStorageAccount -ResourceGroupName "... " -AccountName "... "
CS02 $keyVault = Get-AzureRmKeyVault -VaultName "... "
CS03 $key = Get-AzureKeyVaultKey -VaultName $keyVault.VaultName -Name "... "
CS04 Set-AzureRmKeyVaultAccessPolicy'
CS05 -VaultName $keyVault.VaultName'
CS06 -ObjectId $storageAccount.Identity.PrincipalId'
CS07
CS08
CS09 Set-AzureRmStorageAccount'
CS10 -ResourceGroupName $storageAccount.ResourceGroupName'
CS11 -AccountName $storageAccount.StorageAccountName'
CS12 -EnableEncryptionService File `
CS13 -KeyvaultEncryption'
CS14 -KeyName $key.Name
CS15 -KeyVersion $key.Version'
CS16 -KeyVaultUri $keyVault.VaultUri

```

NEW QUESTION 52

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to ensure that the SecurityPin security requirements are met.

Solution: Using the Azure Portal, add Data Masking to the SecurityPin column, and exclude the dbo user. Add a SQL security policy with a filter predicate based on the user identity.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 56

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to ensure that the SecurityPin security requirements are met.

Solution: Enable Always Encrypted for the SecurityPin column using a certificate based on a trusted certificate authority. Update the Getting Started document with instructions to ensure that the certificate is installed on user machines.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 59

You need to resolve the log capacity issue. What should you do?

- A. Implement Application Insights Sampling.
- B. Change the minimum log level in the host.json file for the function.
- C. Create an Application Insights Telemetry Filter.
- D. Set a LogCategoryFilter during startup.

Answer: A

NEW QUESTION 63

DRAG DROP

You need to add code at line PC32 in Processing.es to implement the GetCredentials method in the Processing class.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Code segments

- MSITokenProvider(". . .", null)
- tp.GetAccessTokenAsync(". . .")
- AzureServiceTokenProvider()
- StringTokenProvider("storage", "msi")
- tp.GetAuthenticationHeaderAsync(CancellationToken.None)

Answer Area

```
var tp = new code segment
var t = new TokenCredential(await code segment
return new StorageCredential(t);
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Code segments

- MSITokenProvider(". . .", null)
- tp.GetAccessTokenAsync(". . .")
- AzureServiceTokenProvider()
- StringTokenProvider("storage", "msi")
- tp.GetAuthenticationHeaderAsync(CancellationToken.None)

Answer Area

```
var tp = new AzureServiceTokenProvider()
var t = new TokenCredential(await StringTokenProvider("storage", '
return new StorageCredential(t);
```

NEW QUESTION 65

You need to ensure the security policies are met. What code do you add at line CS07?

- A. -PermissionsToKeys wrapkey, unwrapkey, get
- B. -PermissionsToKeys create, encrypt, decrypt
- C. -PermissionsToCertificates wrapkey, unwrapkey, get
- D. -PermissionsToCertificates create, encrypt, decrypt

Answer: D

Explanation:

Case Study: 3

Proseware, Inc

Background

You are a developer for Proseware, Inc. You are developing an application that applies a set of governance policies for Proseware's internal services, external services, and applications. The application will also provide a shared library for common functionality.

Requirements Policy service

You develop and deploy a stateful ASP.NET Core 2.1 web application named Policy service to an Azure App Service Web App. The application reacts to events from Azure Event Grid and performs policy actions based on those events.

The application must include the Event Grid Event ID field in all Application Insights telemetry.

Policy service must use Application Insights to automatically scale with the number of policy actions that it is performing.

Policies Log policy

All Azure App Service Web Apps must write logs to Azure Blob storage. All log files should be saved to a container named logdrop. Logs must remain in the container for 15 days.

Authentication events

Authentication events are used to monitor users signing in and signing out. All authentication events must be processed by Policy service. Sign outs must be processed as quickly as possible.

Policylib

You have a shared library named PolicyLib that contains functionality common to all ASP.NET Core web services and applications. The Policy Lib library must

- Exclude non-user actions from Application Insights telemetry.
- Provide methods that allow a web service to scale itself.
- Ensure that scaling actions do not disrupt application usage.

Other

Anomaly detection service

You have an anomaly detection service that analyzes log information for anomalies. It is implemented as an Azure as a web service.

If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.

Health monitoring

All web applications and services have health monitoring at the /health service endpoint.

Issues Policy loss

When you deploy Policy service, policies may not be applied if they were in the process of being applied during the deployment.

Performance issue

When under heavy load, the anomaly detection service undergoes slowdowns and rejects connections.

Notification latency

Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected.

App code EventGridController.cs

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```

EventGridController.cs
EG01 public class EventGridController : Controller
EG02 {
EG03     public static AsyncLocal<string> EventId = new AsyncLocal<string>();
EG04     public IActionResult Process([FromBody] string eventsJson
EG05     {
EG06         var events = JObject.Parse(eventsJson);
EG07
EG08         foreach (var @event in events)
EG09         {
EG10             EventId.Value = @event["id"].ToString();
EG11             if (@event["topic"].ToString().Contains("providers/Microsoft.Storage"))
EG12             {
EG13                 SendToAnomalyDetectionService(@event["data"]["url"].ToString());
EG14             }
EG15
EG16             {
EG17                 EnsureLogging(@event["subject"].ToString());
EG18             }
EG19         }
EG20         return null;
EG21     }
EG22     private void EnsureLogging(string resource)
EG23     {
EG24         . . .
EG25     }
EG26     private async Task SendToAnomalyDetectionService(string uri)
EG27     {
EG28         var content = GetLogData(uri);
EG29         var scoreRequest = new
EG30         {
EG31             Inputs = new Dictionary<string, List<Dictionary<string, string>>>()
EG32             {
EG33                 {
EG34                     "input1",
EG35                     new List<Dictionary<string, string>>()
EG36                     {
EG37                         new Dictionary<string, string>()
EG38                         {
EG39                             {
EG40                                 "logcontent", content
EG41                             }
EG42                         }
EG43                     },
EG44                 },
EG45             },
EG46             GlobalParameters = new Dictionary<string, string>() { }
EG47         };
EG48         var result = await (new HttpClient()).PostAsJsonAsync(". . .", scoreRequest);
EG49         var rawModelResult = await result.Content.ReadAsStringAsync();
EG50         var modelResult = JObject.Parse(rawModelResult);
EG51         if (modelResult["notify"].HasValues)
EG52         {
EG53             . . .
EG54         }
EG55     }
EG56     private (string name, string resourceGroup) ParseResourceId(string
resourceId)
EG57     {
EG58         . . .
EG59     }
EG60     private string GetLogData(string uri)
EG61     {
EG62         . . .
EG63     }
EG64     static string BlobStoreAccountSAS(string containerName)
EG65     {
EG66         . . .
EG67     }
EG68 }

```

LoginEvents.cs

Relevant portions of the app files are shown below. Line numbers are included for reference only and include a two-character prefix that denotes the specific file to which they belong.

```

LoginEvent.cs
LE01 public class LoginEvent
LE02 {
LE03
LE04 public string subject { get; set; }
LE05 public DateTime eventTime { get; set; }
LE06 public Dictionary<string, string> data { get; set; }
LE07 public string Serialize()
LE08 {
LE09     return JsonConvert.SerializeObject(this);
LE10 }
LE11 }
    
```

NEW QUESTION 67

HOTSPOT

You need to tool code at line LE03 of Login Event to ensure that all authentication events are processed correctly. How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

The screenshot shows a code completion question. The code to be completed is:


```
public string [ ] [ ] { get; set; }
```

 There are three options to choose from:

- Option 1: id, eventType, dataVersion, metadataVersion
- Option 2: id, eventType, dataVersion, metadataVersion
- Option 3: id, eventType, dataVersion, metadataVersion

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The screenshot shows the same code completion question as above, but with green boxes highlighting the correct selections:

- Option 1: eventType
- Option 2: id
- Option 3: dataVersion

NEW QUESTION 68

You need to resolve a notification latency issue.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point

- A. Ensure that the Azure Function is using an App Service plan.
- B. Set Always On to false
- C. Ensure that the Azure Function is set to use a consumption plan.
- D. Set Always On to true.

Answer: AD

Explanation:

Azure Functions can run on either a Consumption Plan or a dedicated App Service Plan. If you run in a dedicated mode, you need to turn on the Always On setting for your Function App to run properly. The Function runtime will go idle after a few minutes of inactivity, so only HTTP triggers will actually "wake up" your functions. This is similar to how WebJobs must have Always On enabled.

Scenario: Notification latency: Users report that anomaly detection emails can sometimes arrive several minutes after an anomaly is detected.

Anomaly detection service: You have an anomaly detection service that analyzes log information for anomalies. It is implemented as an Azure Machine Learning model. The model is deployed as a web service.

If an anomaly is detected, an Azure Function that emails administrators is called by using an HTTP WebHook.

References:

<https://github.com/Azure/Azure-Functions/wiki/Enable-Always-On-when-running-on-dedicated-App-Service-Plan>

NEW QUESTION 72

DRAG DROP

You need to add code at line EG15 in EventGridController.cs to ensure that the Log policy applies to all services.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Code segments	Answer Area
topic	<pre> if (@event["data"] [" <input type="text"/> "].ToString() == " <input type="text"/> " && @event["data"] [" <input type="text"/> "].ToString() == "Microsoft.Web/sites/write") </pre>
status	
eventType	
Succeeded	
operationName	
resourceProvider	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Status

Box 2: Succeeded

Box 3: operationName Scenario: Policy service

You develop and deploy a stateful ASP.NET Core 2.1 web application named Policy service to an Azure App Service Web App. The application reacts to events from Azure Event Grid and performs policy actions based on those events.

The application must include the Event Grid Event ID field in all Application Insights telemetry.

NEW QUESTION 77

You need to meet the scaling requirement for Policy Service. What should you store in Azure Redis Cache?

- A. HttpContext.Items
- B. ViewState
- C. Session state
- D. TempData

Answer: C

NEW QUESTION 82

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a cloud -based email service.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 86

You need to debug the user greeting issue. What should you use?

- A. Bot Framework Channel Inspector
- B. Bot Connector service

- C. Azure Compute Emulator
- D. Azure Application Insights
- E. Bot Framework Emulator

Answer: E

Explanation:

Scenario: The chatbot's greeting does not show the user's name. You need to debug the chatbot locally.

Debug your bot using an integrated development environment (IDE) such as Visual Studio or Visual Studio Code and the Bot Framework Emulator. You can use these methods to debug any bot locally.

References:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-debug-bot?view=azure-bot-service-4.0>

NEW QUESTION 90

HOTSPOT

You need to update the Inventory API.

Which development tools should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Development	Tool
Technology	<div style="border: 1px solid gray; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="border-top: 1px solid gray; border-bottom: 1px solid gray; padding: 2px;">ADO.NET</div> <div style="border-top: 1px solid gray; border-bottom: 1px solid gray; padding: 2px;">Entity Framework</div> <div style="border-top: 1px solid gray; border-bottom: 1px solid gray; padding: 2px;">Entity Framework Core</div> <div style="border-top: 1px solid gray; border-bottom: 1px solid gray; padding: 2px;">WCF Data Services</div> </div>
Workflow	<div style="border: 1px solid gray; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="border-top: 1px solid gray; border-bottom: 1px solid gray; padding: 2px;">Model first</div> <div style="border-top: 1px solid gray; border-bottom: 1px solid gray; padding: 2px;">Database first</div> <div style="border-top: 1px solid gray; border-bottom: 1px solid gray; padding: 2px;">Code first</div> </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario: The Inventory API must be written by using ASP.NET Core and Node.js. Box 1: Entity Framework Core

Box 2: Code first References:

<https://docs.microsoft.com/en-us/aspnet/mvc/overview/getting-started/getting-started-with-ef-using-mvc/creating-an-entity-framework-data-model-for-an-asp-net-mvc-application>

NEW QUESTION 92

You need to update the chatbot to greet the user when they sign in.

Which two rich card formats can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point

- A. Thumbnail
- B. Adaptive
- C. Sign-in
- D. Hero
- E. Animation

Answer: AC

Explanation:

Scenario: The chatbot greeting interface must match the formatting of the following example:

Welcome to the Restaurant!



John Doe

Sun, Aug 26, 2018

Welcome to Best For You Organics Company! How can we help you today?

Specials: Chicken Marsala

Order Pickup

Order Delivery

A message exchange between user and bot can contain one or more rich cards rendered as a list or carousel. The Attachments property of the Activity object contains an array of Attachment objects that represent the rich cards and media attachments within the message.

The Bot Framework currently supports eight types of rich cards:

?Thumbnail Card. A card that typically contains a single thumbnail image, one or more buttons, and text.

?SignIn Card. A card that enables a bot to request that a user sign-in. It typically contains text and one or more buttons that the user can click to initiate the sign-in process.

Incorrect Answers:

B: Animation Card. A card that can play animated GIFs or short videos.

C Hero Card. A card that typically contains a single large image, one or more buttons, and text.

E: Adaptive Card. A customizable card that can contain any combination of text, speech, images, buttons, and input fields.

Note:

?Receipt Card. A card that enables a bot to provide a receipt to the user. It typically contains the list of items to include on the receipt, tax and total information, and other text.

?Video Card. A card that can play videos. References:

<https://docs.microsoft.com/en-us/azure/bot-service/dotnet/bot-builder-dotnet-add-rich-card-attachments?view=azure-bot-service-3.0>

NEW QUESTION 94

Note: In this section you will see one or more sets of questions with the same scenario and problem. Each question presents a unique solution to the problem, and you must determine whether the solution meets the stated goals. More than one solution might solve the problem. It is also possible that none of the solutions solve the problem.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You need to meet the vendor notification requirement.

Solution: Update the Delivery API to send emails by using a Microsoft Office 365 SMTP server.

Does the solution meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Use a custom outbound Azure API Management policy. Scenario:

If a vendor is nearing the number of calls or bandwidth limit, the API must trigger email notifications to the vendor.

(API usage must not exceed 5,000 calls and 50,000 kilobytes of bandwidth per hour per vendor.)

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies>

NEW QUESTION 97

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